RESTRICTED USE PESTICIDE

Due to ground and surface water concerns. For retail sale to and use only by Certified Applicators or persons under their direct supervision, and only for those uses covered by the Certified Applicator’s certification.

ATRAZINE 90DF
A Water Dispersible Granule For Weed Control In Corn, Sorghum And Other Crops

ACTIVE INGREDIENT
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine) ....................................................... 88%
Related Compounds ............................................................................................................. ....... 2%
TOTAL .................................................................................................................................. 100.0%

KEEP OUT OF REACH OF CHILDREN

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

IF IN EYES: Hold eyelids open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

FIRST AID

NOTE TO PHYSICIANS: There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

READ ADDITIONAL PRECAUTIONARY STATEMENTS. PRECAUTIONARY STATEMENTS.
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with eyes, skin or clothing.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemically resistant to this product are polyethylene and polyvinyl chloride. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators, cleaners of equipment and spills, and other handlers exposed to the concentrate must wear:

- coveralls over long-sleeved shirt and long pants, chemical-resistant gloves such as polyethylene or polyvinyl chloride, chemical-resistant footwear plus socks, and chemical-resistant resistant gloves, such as polyethylene or polyvinyl chloride.

- Aerial application is prohibited.

- See engineering controls for additional requirements.

- Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them.

ENGINEERING CONTROLS STATEMENT

When applicators use enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Table 1: Broadleaf and Grass Weed Control In Corn®

<table>
<thead>
<tr>
<th>Weed</th>
<th>Rate (lbs. ai/A)</th>
<th>Control</th>
</tr>
</thead>
<tbody>
<tr>
<td>Barnyardgrass</td>
<td>0.5</td>
<td>95%</td>
</tr>
<tr>
<td>Cocklebur</td>
<td>0.5</td>
<td>95%</td>
</tr>
<tr>
<td>Kochia</td>
<td>0.5</td>
<td>80%</td>
</tr>
<tr>
<td>Lambsquarters</td>
<td>0.5</td>
<td>95%</td>
</tr>
<tr>
<td>Large crabgrass*</td>
<td>0.5</td>
<td>95%</td>
</tr>
<tr>
<td>Annual morning glory</td>
<td>0.5</td>
<td>95%</td>
</tr>
</tbody>
</table>

* Partial control only

NOTE TO PHYSICIANS: There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

* Partial control only

** Partial control only on medium and fine-textured soils

PRECAUTIONARY STATEMENTS.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled, or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with eyes, skin or clothing.

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
and where these soils are very well-drained and agricultural practices are practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after harvest.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from treated areas. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Atrazine Watershed Information Center (AWIC) to determine whether the use of this product is prohibited in your watershed. AWIC can be accessed through www.atrazine-watershed.info, or 1-866-365-3014. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact registrant for a refund.

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls, chemical-resistant gloves such as any waterproof material, and shoes plus socks.

Non-agricultural use may involve contact with anything that has been treated, such as plants, soil, or water. This product may be applied before or after weeds emerge. Do not enter or allow workers to enter until sprays have dried.

Storage and disposal
Do not contaminate water, food, or household fixtures. DO NOT APPLY WATER SOIL, FOOD, OR FEED BY STORAGE OR DISPOSAL.

Pesticide storage
Store in a dry location away from children, foods, feeds, seeds, or other agricultural chemicals. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage, scrape up spillage. If spillage is not suitable for use, dispose of in accordance with information given under DISPOSAL. Repackage and relabel product in a sound container.

Pesticide disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container disposal: Nonrefillable Container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. In case of fire or explosion, call your local fire department or toll-free telephone to 800-424-9300.

General information
This herbicide controls many annual broadleaf and grass weeds in corn, sorghum, sugarcane and certain other crops specified on this label. It may be applied before or after weeds emerge.

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled/protected by use of this product. These biotypes are referred to as HERBICIDES. WHERE THIS IS KNOWN OR SUSPECTED, WE RECOMMEND THE USE OF THIS PRODUCT IN COMBINATION WITH OTHER REGISTERED HERBICIDES WHICH ARE NOT INJURIOUS.

Consult with your state agricultural extension service for specific recommendations.

Type Oil Ground Application

| Oil Concentrate (crop or Petroleum-derived) | 1 quart/Acre |
| Petroleum-derived oil | 1 gallon/Acre |

Broadleaf and Grass Control: Apply 2.2 lbs./A of Atrazine 90DF after weed emergence, but before weeds reach 1.5 inches in height.

Broadleaf Control: Apply 1.3 lbs./A of Atrazine 90DF for control of many broadleaf weeds, including annual morningglory, cocklebur, lambsquarters, mustard, pigweed, redroot, smartweed and wild buckwheat. Add 1 gal. of emulsifiable oil per acre for ground application. Apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds re-grow.

Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water: (1) Do not apply when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors, or when crop is wet and succulent from recent rainfall, as crop injury may occur. (2) Inhibited or any breeding stock may be severely injured by applications with emulsifiable oil or oil concentrate. Adding other herbicides, herbicide tank mixes, or other materials is not recommended because they may cause compatibility problems or crop injury. (4) Store and handle emulsifiable oil and oil concentrate carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.

TANK MIXTURES FOR CORN

This product may be tank mixed with these herbicides for control of certain broadleaf and grass weeds in corn:

| Acorone® | Frontenac® |
| Barnvel® | Gramoxone® Extra/Cycloxyline® |
| Basagran® | Trefflan®/Trefluran® |
| Basadon® | Tough® |
| Bronco® + Dual® | Processor® |
| Buctril® | Pursuit® (2) |
| Clarit® | Pursuit® Fallowable |
| Dalapon® | Roundup®/Glyp® |
| Dualane® | Sultran® |
| Eradicate® | Weedicure® |

(1) Refer to tank mix directions appearing on the labels of the above herbicides when tank mixing with this product. Observe and follow all precautions and limitations stated on labeling of products used. Always follow the most restrictive of limitations and precautions listed.

(2) Use only on IMI corn hybrids.

Note: When labels of the above herbicides refer to Atrazine 80W or Atrazine 4L, use equivalent rates of ATRAZINE 90DF. One lb. of B.W. equals 0.89 lb. of ATRAZINE 90DF. One qt. of 4L equals 1.1 lb. of ATRAZINE 90DF.

Princo 4L (4LC), Princo Caliber 90, Simazine 4L or Simazine 90DF: Use as tank mixture for control of many annual weeds, including carpetweed, crabgrass, dandelion, foxtail, lambsquarters, morningglory, pigweed, ragweed and velvetleaf. Apply before planting, at planting, or after planting. But before crop and weeds emerge, at rates in Table 2. Use 1-1/2 ratio for control of above weeds. Use 1:2 ratio for expected heavy infestations of crabgrass and fall panicum. Apply in a minimum of 20 gal. of water per acre. Cultivate shallowly if weeds appear.

Preplant: Apply in spring during or after final seedbed preparation. Avoid deep incorporation. For best results, apply within two weeks prior to planting.

Preemerge: Apply during or shortly after planting, but before crop and weeds emerge.

Refer to Corn sections of this label and to Princo Caliber 90, Princo 4L, Simazine 4L or Simazine 90DF label for further directions, limitations, and precautions.
When tank-mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, do not exceed an application rate of 2.0 pounds active ingredient per acre for any single application and the total pounds of atrazine applied (lbs ai/A) must not exceed 2.5 pounds active ingredient per acre per year.

When tank-mixing or sequentially applying atrazine or products containing atrazine to crops other than corn or sorghum, the total pounds of atrazine applied (lbs ai/A) must not exceed the specific seasonal rate limits as noted in the use directions.

**APPLICATION PROCEDURES**

Aerial application of dry flowable products that are not packaged in water soluble bags is prohibited.

Ground Application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre for all preplant, preemergence and postemergence applications (with or without oil or surfactant) with ground equipment. When an adjuvant is to be used with this product, Winfield Solutions, LLC recommends the use of a Chemical Producers and Distributors Association certified adjuvant.

Use a pump with a capacity of (1) maintain 35-40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide proper shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallons tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer’s recommendations.

For band applications, calculate amount to be applied per acre as follows:

- **Band width in inches**
- **Broadcast rate** per acre
- **Low width in inches**
- **Per acre**
- **Per acre of field**

**Application in Water or Liquid Fertilizer:** Nitrogen solution or complete liquid fertilizer may replace all or part of the water as a carrier for preemergence or preplant ground application on corn and sorghum. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after corn or sorghum emerges, or crop injury may occur.

To determine the compatibility of ATRAZINE 90DF alone or in tank mixtures, with fluid fertilizer, pour the products into a small container of fluid fertilizer in the proportions shown below. For different spray volume or herbicide rate, make appropriate changes in the ingredients. For each pound of ATRAZINE 90DF or other dry product to be applied per acre, add 1 level teaspoon or 5 milliliters of the product to one pint of fluid fertilizer (assuming a volume of 25 gallons per acre).

For each pint of a liquid or fluid fertilizer to be applied per acre, add 0.1 teaspoon or 2.5 milliliters of the product to one pint of fluid fertilizer (assuming a volume of 25 gallons per acre).

After thorough mixing, let stand 5 minutes. If the herbicide formulation remains mixed, or can be remixed readily, the mixture is compatible and can be sprayed. If it is not compatible, make a water slurry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible. The addition of a compatibility agent, such as Combien®, may be useful.

**Application in Water Plus Emulsifiable Oil or Concentrate:** Adding an emulsifiable oil or oil concentrate, such as Prime Oil® or Prime Oil® EV, to postemergence water based sprays on corn and sorghum may improve weed control. However, under certain conditions, the use of either type of oil may seriously injure the crop. To minimize this possibility, observe the following directions.

- Use a crop oil containing 1%-2% suitable emulsifier, or a suitable crop oil concentrate containing not more than 20% emulsifier or surfactant blend.
- Emulsifiable oil and oil concentrates contaminated with water or other materials can cause compatibility problems and/or crop injury.

**Mixing Procedures - All Uses:** (1) Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result. (2) Fill tank 1/4 full with clean water, or container full or complete liquid fertilizer. (3) Start agitation. (4) Be certain that the agitation system is working properly and creates a rolling or rolling action on the liquid surface. (5) Pour product directly from container into tank. Let it wet and settle into water. (6) Continue filling tank until full. Increase agitation if necessary to maintain surface action. (7) Add emulsifiable oil, oil concentrate or tank mix herbicide(s) after this product is thoroughly suspended. (8) Finish filling tank. (9) Empty tank as completely as possible before refilling to prevent build-up of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials. (10) If an oil or emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent. (11) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

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Table 2: Tank Mixtures with Simazine on Corn

<table>
<thead>
<tr>
<th>Soil Texture</th>
<th>This Product</th>
<th>Simazine 4L or 90DF</th>
<th>This Product</th>
<th>Simazine 4L or 90DF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sand, loamy sand, sandy loam</td>
<td>1.1 lbs.</td>
<td>2 pts. or 1.11 lbs.</td>
<td>0.73 lbs.</td>
<td>2.67 pts. or 1.48 lbs.</td>
</tr>
<tr>
<td>Loam, silt loam, silt, clay loam, sandy clay loam, sandy clay loam, or silt clay with low organic matter.</td>
<td>1.3 lbs.</td>
<td>2.4 pts. or 1.33 lbs.</td>
<td>0.88 lbs.</td>
<td>3.2 pts. or 1.76 lbs.</td>
</tr>
<tr>
<td>Loam, silt loam, silt, clay loam, sandy clay loam, or silt clay with medium to high organic matter, and clay (including dark prairie soils of the Corn Belt)</td>
<td>1.6 lbs.</td>
<td>3 pts. or 1.6 lbs.</td>
<td>1.07 lbs.</td>
<td>3.85 pts. or 2.13 lbs.</td>
</tr>
</tbody>
</table>

*For control of weeds above.

*For control of expected heavy infestations of crabgrass and fall panicum.

Gramoxone Extra: For control of existing vegetation and residual weed control where corn will be planted directly into a cover crop, established sod, or in previous crop residues, add this product at rates shown in Table 1 and 1.5 - 3.5 pts. of Gramoxone Extra in 30-90 gal. of water per acre. Add 16 fl. oz. of a nonionic surfactant per 100 gal. of spray mixture. Add this product to spray tank, thoroughly mix with water, then add Gramoxone Extra and surfactant.

Refer to the Gramoxone Extra label for further directions, limitations, and precautions.

Princo 80W, Princo 4L, or Simazine 90DF plus Gramoxone Extra: Use as tank mixture with Princo, or Simazine, and Gramoxone Extra for killing of existing vegetation and residual weed control where corn will be planted directly into a cover crop, established sod, or in previous crop residues. Add this product and Princo, or Simazine, to water in spray tank, agitating until thoroughly mixed. Then add Gramoxone Extra and a nonionic surfactant, such as Activate Plus. Continue agitation during application. Add 1.1 - 2.2 lbs. of this product plus 1.25 - 2.5 lbs. of Princo 80W (or 2 - 4 pts. of Princo 4L, or 1.1 - 2.2 lbs. of Simazine 90DF) plus a suitable amount of Gramoxone Extra in 20 - 40 gal. of water per sprayed acre before, during, or after planting, but before corn crop emerges. Refer to the Gramoxone Extra label for the appropriate rates to utilize in this tank mixture. Add 16 fl. oz. of a nonionic surfactant such as Activate Plus per 100 gal. diluted spray. Use low rates of this product and of Princo or Simazine on coarse soil and higher rates on fine-textured soil. Use 2 - 2.5 pts. of Gramoxone Extra if existing vegetation is 4-6 inches tall. This mixture will not control weeds higher than 6 inches.

Refer to further limitations and precautions on labels for this product, Princo or Simazine and Gramoxone Extra.

Precautions for all applications to corn: (1) The maximum application rate for corn is 2.8 lbs. per acre per calendar year. For all tank mixtures and sequential treatment of products containing atrazine, the total lbs. ai of atrazine applied cannot exceed 2.5 pounds active ingredient per year. (2) Following harvest, plow (moldboard or disk-plow) and thoroughly till soil in fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of rate used.

Note for all Applications to Corn: For field corn, do not harvest for forage within 60 days of application. For sweet corn, do not harvest for forage within 45 days of application.

**NET CONTENTS**

25 LBS
1/0505/1

EPA Reg No. 9779-253

EPA Est. No. 070989-AR-001
CONSERVATION RESERVE PROGRAM (CRP) (NE, OK, OR, and TX)

1. Do not rotate to any crop except corn or sorghum until the following year, or injury may occur. 2. If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. 3. In the High Plains and Intermountain areas of the West where rain fall is sparse and erratic or where irrigation is required, use only when corn or sorghum is to follow corn or sorghum or when a crop of untreated corn or sorghum is to precede other rotational crops. 4. In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans if the rate applied to corn or sorghum was more than 2.2 lbs./A of Atrazine 90DF or equivalent band application rate, or soybean injury may occur. 5. Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer. 6. Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)

Apply before planting, at planting, or after planting, as indicated in the directions below. See Corn section for weeds controlled.

Preplant Surface-Applied (Broadleaf and grass control): Use on medium and fine-textured soil with minimum-tillage or no-tillage systems only in CO, IA, IL, IN, KY, MN, MO, MT, ND, NE, SD, WI, and WY. Apply the recommended rate of ATRAZINE 90DF shown in Table 3 up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment included atrazine, do not exceed the labeled rate for corn indicated in Table 1. Under dry conditions, irrigation after application is recommended to move ATRAZINE 90DF into the soil.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, Gramoxone Extra or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

Preplant Incorporated (Broadleaf and grass control): Broadcast in spring after plowing at rate in Table 3. Apply before, during, or after final seedbed preparation. Avoid deep incorporation. For best results, apply within two weeks before planting.

Preemergence (Broadleaf and grass control): At rate shown in Table 3 during or shortly after planting and before weed or crop emergence.

ROTATIONAL CROPS: Do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. Use only when corn or sorghum is to follow corn or sorghum or when a crop of untreated corn or sorghum is to precede other rotational crops. In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans if the rate applied to corn or sorghum was more than 2.2 lbs./A of Atrazine 90DF or equivalent band application rate, or soybean injury may occur. Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer. Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

SEVERE DROUGHT CONDITIONS

Do not graze forage or cut forage for hay. Under severe drought conditions, the Conservation Reserve Program allows grazing and making of hay from CRP acres, as specified by the local ASCS (Agricultural Stabilization & Conservation Service) offices. This label does not allow grazing or making of hay from CRP acres that have been treated with atrazine under any circumstances.

SUGARCANE

For control of many broadleaf and grass weeds, including amaranthus, crabgrass, freeweed, Flora's paintbrush, foxtails, juglansgrass, and wiregrass, broadcast 2.2-4.4 lbs. per acre of ATRAZINE 90DF at time of planting or ratooning, but before sugarcane emerges. Broadcast or band by ground equipment in a minimum of 20 gal. per acre, unless indicated otherwise. One additional application may be made over the sugarcane as it emerges, and two additional applications may be made interline after emergence as directed sprays. Repeat treatments, where needed, may be applied broadcast, band, or interline as suggested with the final application being prior to “close-in.” Do not exceed the rate of herbicide suggested for any one crop of sugarcane. Note: Where high rates of ATRAZINE 90DF are used alone, apply in a minimum of 1 gal. of water for each 1 lb. of product applied per acre.

Florida

For control of emergent pettitory weed: Apply 0.4-0.6 lbs. per acre in at least 40 gal. of water as a directed spray by ground equipment prior to “close-in.” Add 4 qts. of surfactant for each 100 gal. of spray. Thoroughly cover weed foliage. For control of alexandergrass, large crabgrass, pettitory (artillery) weed, and spiny amaranth, use one of the following methods: Apply 4.4 lbs./A of Atrazine 90DF preemergence. Follow with one or two applications, as needed, postemergence to sugarcane and weeds, at 2.2 lbs./A of product. Treat before weeds exceed 1.5 inches in height. Apply 1-3 times, as needed, at 2.2 lbs./A of Atrazine 90DF postemergence to sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

Louisiana

For control of annual weeds during the summer fallow period, apply 2.2 lbs./A of Atrazine 90DF to weed-free beds immediately after bed formation. Follow normal weed control program after planting.

Table 3: Broadleaf and Grass Weed Control in Sorghum

For all soil applications prior to crop emergence

*Do not apply preplant in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, or TX. Do not apply preemergence in NM, OK, or TX, except in northeast OK, and the TX Gulf Coast.

In case of planting failure, sorghum or corn may be replanted. Do not make second broadcast application, as injury may occur. If originally applied in a band and sorghum or corn is replanted in untreated row middles, this product may be applied in a band to the second planting. However, the maximum application rate for sorghum or corn is 2.8 lbs. per acre per calendar year.

Preemergence broadleaf weed control in furrow irrigated banded sorghum (AZ only): For preemergence control of many broadleaf weeds, including groundcherry, lambquarters, morningglory, mustard, pigweed and purslane, apply 0.9-1.3 lbs. per acre after bed preparation, during or after planting, but before sorghum and weeds emerge and before the first furrow irrigation. Follow with several regular irrigations making sure to thoroughly wet all soil.
Precautions for Preemergence Application to Furrow Irrigated Bedded Sorghum in AZ: To avoid possible sorghum injury, do not use on sand or loamy sand soil or on sorghum planted in furrows. Applications to sorghum growing on alkali soils or where cuts, fills, or erosion have exposed alkali soils may cause crop injury. In case of crop failure, do not replant sorghum for 8 months following application. Corn may be planted immediately.

Postemergence (Broadleaf and grass control): Apply at rate in Table 3 before weeds exceed 1.5 inches in height. Postemergence application to sorghum must be made before sorghum reaches 12 inches in height.

Postemergence Broadleaf Weed Control with Emulsifiable Oil or Concentrate in Water: Apply 1.3 lbs./A of Atrazine 90DF for control of broadleaf weeds, including annual morning glory, cocklebur, lambquarters, mustard, pigweed, ragweed, smartweed and wild buckwheat. Apply after pigweed and lambsquarters exceed 6 inches in height and before all others exceed 12 inches in height. In CO, western KS, NM, OK, TX and desert regions of AZ, apply when sorghum is 6–12 inches in height. Do not apply after sorghum exceeds 12 inches in height. In all other areas, apply sorghum reaches the 3–leaf stage, before sorghum exceeds 12 inches in height. At 1 gal. of emulsifiable oil per acre for ground application. Add 1 qt. of oil concentrate per acre for ground application. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

For a list of weed controlled, see ATRAZINE 90DF Applied Alone—Corn or Grain Sorghum—Postemergence with Emulsifiable Oil or Oil Concentrate in Water.

Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water: See Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water in CO, western KS, NM, OK, TX and desert regions of AZ only.

Postemergence Broadleaf Weed Control with Surfactant (CO, western KS, NM, OK, TX, and desert regions of AZ only): Apply 1.3 lbs./A of Atrazine 90DF plus 0.75–1.5 lbs./A of surfactant after sorghum reaches 6 inches in height, but before weeds exceed 1.5 inches in height. Apply only on sandy loam or finer textured soil.

Precautions for All Applications to Sorghum: (1) Heavy rain immediately following application, tends to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Do not apply to furrow-planted sorghum until furrows are leveled (plowed). In deep planter marks or seed furrows before application. (2) Application to sorghum growing under stress caused by minor insect deficiency of sorghum growing on highly calcareous soil may result in crop injury. (3) Following harvest, plow (moldboard or disk-plow) and thoroughly till soil in fall or spring to minimize possible Injury to spring-seeded rotational crops, regardless of rate used. (4) Injury may occur if both the herbicide, preplant or preemergence, and an at-planting systemic insecticide applied in-furrow are used. (5) Do not apply more than 2.5 lbs. active ingredient/2.8 lbs. product per acre per year. (6) For tank mixes and sequential treatment of products containing atrazine, do not exceed 2.0 lbs. a.i./A of atrazine as a pre or post application or 2.5 lbs. a.i./A as the total of pre plus post application per calendar year. (7) For postemergence treatment to crop emergence (except for use as emergence herbicide on seeded sorghum in AZ), do not apply coarse texture (sand, loamy sand, sandy loam or fine soil) and medium to fine textured soils having less than 1% organic matter, or crop injury may occur. (8) For postemergence treatment to crop emergence to sand or loamy sand, crop injury may occur.

Note: for rotational areas to sand or loamy sand, crop injury may occur. All normal weed control programs may be used in the following corn, grain sorghum, or forage sorghum crops.

WINTER WEED CONTROL IN TEXAS

For postemergence control of winter weeds only, such as herb, weedy dock, and annual thistle on fall seeded land in the Gulf Coast and Blacklands of Texas. Apply 0.9–1.1 pounds per acre postemergence to the weeds in November or December to land that will be planted to corn, grain sorghum, or forage sorghum the following spring. Apply Basagran, Lasso/Arena, and an at-planting systemic insecticide, such as Activate Plus, at the rate of 0.56–0.75 fl. oz./1,000 sq. ft. on the spray volume, an emulsifiable oil at the rate of 1.5%, of the spray volume, or an oil concentrate at the rate of 1 qt. per acre, such as Primé Oil.

Normal weed control programs may be used in the following corn, grain sorghum, or forage sorghum crops.

Note: Do not plant any crops except corn, grain sorghum or forage sorghum the spring following this treatment, or illegal residues may result.

Precautions: For soils in North and South Dakota with a pH of 7.5 or greater, do not apply more than 1.5 pounds active ingredient per acre for any application. Do not apply more than 0.25 pounds active ingredient per acre for any application. Do not apply more than 0.25 pounds active ingredient per acre for any application. Do not apply more than one application per cycle. Do not apply more than 2.25 pounds active ingredient per acre for any application. Do not apply more than one application per cycle.

ATRAZINE 90DF Alfalfa

Wheat-Sorghum-Fallow: To control annual broadleaf and grass weeds following wheat in the following sorghum crop when grown under minimum tillage, broadcast 2.5 lbs./A of Atrazine 90DF to wheat stubble immediately following wheat harvest. Wheat weeds are present at application, remove them with a sweep plow or other suitable implement after application or use achioed control herbicides before, after, or with the application of ATRAZINE 90DF. Plant sorghum into wheat stubble the following spring with minimum soil disturbance. Use a surface disk, chisel or other controlled surfactant, such as Activate Plus, at the rate of 0.56–0.75 fl. oz./1,000 sq. ft. on the spray volume, an emulsifiable oil at the rate of 1.5%, of the spray volume, or an oil concentrate at the rate of 1 qt. per acre, such as Primé Oil. For the list of weed controlled, see ATRAZINE 90DF Applied Alone—Corn or Grain Sorghum—Preplant Incorporated or Preemergence.

Precautions: (1) Use only on soil tar, or fine textured soil. (2) Use only on sorghum seedling for fall and winter injury. (3) Do not apply sorghum fallow, cropping sequence must be followed. (4) Do not apply sorghum fallow, cropping sequence must be followed.

Note: Do not graze or feed forage from treated area to livestock. Do not plant any crop other than those listed on this label within 18 months following treatment.

Wheat-Corn-Fallow (CO, KS, ND, NE, SD and WY): This product controls chenopods (downy brome, chess), kochia, mustarda, pigweed, Russian thistle, wild mustard, and selected species of cold acclimated weeds. Read label and instructions. Must meet coolness requirement. Must control cool season annual winter wheat.
Wheat-Corn-Fallow (CO, KS, ND, NE, SD and WY): This product controls cheatgrass (downy brome, cheat), Kochia, mustards, pigweed, Russian thistle, wild lettuce, wild sunflower, and volunteer wheat during period after wheat harvest. Weed control may extend into following corn crop grown under minimum tillage.

On soils in ND and SD with a pH greater than 7.5, do not exceed 1.5 lbs. a.i./A of Atrazine 90DF. For soils with a pH less than the 7.5 in ND and SD, apply 1-2 lbs. a.i./A. Use the lower rate on finer textured soils and, where heavy weed infestations are expected, use the lower rate on coarse-textured soils. When wind or light weed infestations are expected. In the event grasses are present the following spring, use a grass herbicide registered for use on corn.

Follow directions for use, notes and precautions in the Wheat-Sorghum-Fallow section above, substituting corn for references to sorghum.

Wheat-Fallow-Wheat (CO, KS, NE, ND, SD, and WY): For preemergence control of cheatgrass (downy brome, cheat), common lambsquarters, field pennycress, Kochia, mustard, Russian thistle, wild lettuce and suppression of volunteer wheat during fallow period of wheat-fallow-wheat rotations, broadcast 0.5-1.1 lbs./A of Atrazine 90DF on all soils except those listed under Precautions. For control of pigweed and wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same fallow period.

TANK MIXTURES FOR CHEMICAL FALLOW

Wheat-Sorghum-Fallow or Wheat-Corn-Fallow (KS, NE):

Gramoxone Extra (or Cyclone). If weeds are present at application, a tank mix with Gramoxone Extra may be used. Broadcast 2.5 lbs. of this product plus 1.5-3.5 pts. of Gramoxone Extra in 20-60 gal. of water per acre by ground equipment. Add 1 pt. of a nonionic surfactant, such as Actuate Plus, per 100 gal. of spray mixture. Add ATRAZINE 90DF to spray tank first and thoroughly mix with water. Then add Gramoxone Extra, followed by surfactant. Use 2.5 pts. of Gramoxone Extra if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to Gramoxone Extra label for further directions, precautions, and limitations.

Wheat-Fallow-Wheat (CO, KS, ND, NE, SD, and WY): Gramoxone Extra. If weeds are present at application, a tank mix with Gramoxone Extra may be used. Broadcast 0.5-1.1 lbs. of this product plus 1.5-3.5 pts. of Gramoxone Extra in 20-60 gal. of water per acre by ground equipment. Add 0.5-1 pt. of a nonionic surfactant, such as Actuate Plus, per 100 gal. of spray mixture. Add ATRAZINE 90DF to spray tank first and thoroughly mix with water. Then add Gramoxone Extra, followed by surfactant. Use the 2.5 pt. rate of Gramoxone Extra if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to Gramoxone Extra label for further directions, precautions, and limitations. If weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment, or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank mixture with Gramoxone Extra plant at least 2 inches deep and 12 months or more after application.

Precautions:

1. Do not use on sandy soil.
2. Do not treat eroded hillside, caliche and rocky outcrops of exposed calcareous subsurface.
3. Do not treat soils of the Rosace and Caryon Series in western NE and adjoining counties in CO and WY.
4. Do not treat soils with calcareous surface layers.
5. Avoid spray overlap.

Note: Do not graze treated areas within 6 months after application.

ROADSIDES

To control certain annual weeds in established perennial grasses along roadsides in CO, KS, MT, ND, NE, SD, and WY, including cheatgrass (downy brome, cheat), common annual orchardgrass, little barley, broadleaf sandbur, wheatgrass, and tumble mustard, broadcast 1.1 lbs. per acre in a minimum of 100 gallons of water by ground equipment in the fall before ground freezes, or after thawing in the spring, but before the established grasses grow-up and before weeds emerge. Examples of desirable established grasses include big bluegrass, bluegrasses, prairiegrasses, buffalo grass, crested wheat grass, indiangrass, little bluegrass, side-oats grama, switchgrass, and Western wheatgrass. Apply only once per year. Temporary discoloration or other form of Injury to the desirable perennial grasses may occur following application.

Notes:

1. To avoid livestock residues, (1) Do not cut or feed roadside grass hay. (2) Do not allow livestock to graze treated areas. Do not apply more than 1 pound active ingredient per acre for any application. Do not apply more than one application per year.

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